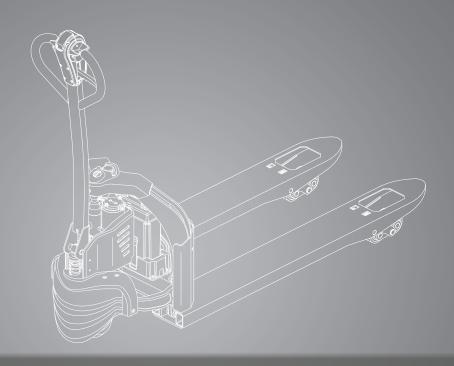


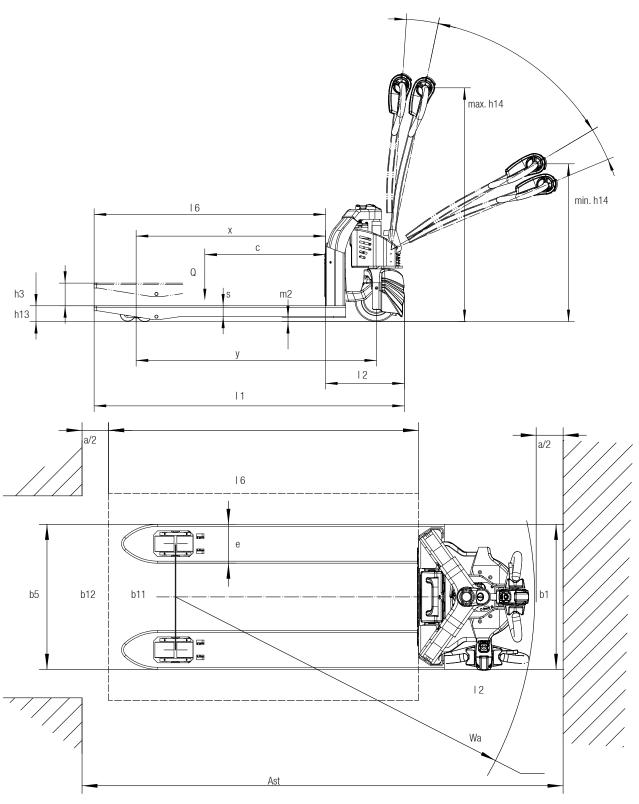
# WPio12

Lithium—ion hand pallet truck Electrical lift and electrical drive system 1.200 kg



# **DIMENSIONS**

$$\begin{split} R_{\rm h} &= \sqrt{x^2 + \left(\frac{b_{12}}{2}\right)^2} \\ A_{\rm st} &= W_a + l_6 - x + a \quad \text{if} \quad R_{\rm h} < W_a \\ A_{\rm st} &= R_{\rm h} + l_6 - x + a \quad \text{if} \quad R_{\rm h} > W_a \end{split}$$



For corresponding data see speci cation chart.

# **SPECIFICATIONS**

### Product Specications acc. to VDI 2198

	4.4	Manufacturer (Abbreviation)		CLARK
Specications		Manufacturer (Abbreviation)  Manufacturer's designation		WPio12
			24V Electric	
		Drive		
		Operator type	O (lea)	Pedestrian
		Rated capacity/rated load	Q (kg)	1200
		Load centre distance	c (mm)	600
		Load distance	x (mm)	950
		Wheelbase	y (mm)	1190
Weight		Service weight incl. battery (see 6.5)	kg	130
		Axle loading, laden front/rear	kg	420/910
		Axle loading, unladen front/rear	kg	110/20
		Tyres		Polyurethane
Iyres, Chassis		Tyre size, front		Ø 210x70
		Tyre size, rear	Ø80x60	
		Additional wheels (dimensions)	-	
lyre		Wheels, number front/rear ( $x = driven wheels$ )		1x / 2 or 4
		Tread, front	b10 (mm)	-
		Tread, rear	b11 (mm)	410
	4.4		h3 (mm)	115
		Lift height	h3 + h13 (mm)	195
		Height tiller in driving position min./max.	h14 (mm)	750/1190
		Height, lowered	h13 (mm)	80
	4.19	Overall length	I1 (mm)	1540
Suc		Length to face of forks	l2 (mm)	390
Dimensions		Overall width	b1 (mm)	560
] jii		Fork dimensions	s • e • I (mm)	53x150x1150
	4.25	Distance between fork-arms	b5 (mm)	560
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	27
		Aisle width for pallets 1000 x 1200 sideways	Ast (mm)	1640
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	1840
	4.35	Turning radius	Wa (mm)	1390
42	5.1	Travel speed, laden/unladen	km/h	4.0/4.5
Performance	5.2	Lift speed, laden/unladen	m/s	0.02/0.025
L	5.3	Lowering speed, laden/unladen	m/s	0.06/0.03
erfc	5.8	Max. gradeability, laden/unladen *1	%	4/10
	5.10	Service brake		Electric
		Drive motor rating S2 60 min	kW	0.65
		Lift motor rating at S3 15 %	kW	0.5
		Battery acc. to DIN 43531/35/36 A, B, C, no		No
rics	6.4	Battery voltage/nominal capacity (5hr)	V/Ah	24 / 20
Electrics		Battery weight	kg	3.7
		Energy consumption acc. to VDI cycle	kWh/h	0.25
		Battery type		Lithium-ion
	8.1	Type of drive unit		DC
ي		Steering design		Mechanical
Misc.	10.7	Sound pressure level at the driver's seat acc. to E	N 12053 dB(A)	<64
		· · · · · · · · · · · · · · · · · · ·	` '	

<sup>\*1)</sup> At friction coeficient  $\mu{=}0.6$  with 1.6 km/h

# **EQUIPMENT EXTRAS**

		WPio12
	Easy to handle lithium-ion battery (3,7 kg)	•
General	Truck net weight, including battery 130 kg	•
General	External charger	•
	Electrical lift and electrical drive system	•
	Tandem load wheel (Polyurethane)	•
Drive	Single load wheel (Polyurethane)	Х
Options	Replacement lithium-ion battery	Х
	Battery discharge indicator	•
	Fork length 1000 mm, 1150 mm or 1220 mm	X
Fork Options	Width across forks 560 mm	•
	Width across forks 685 mm	Х
	Key switch activation via Smart-Key	•
	Monitored by battery management system	•
	Automatic lift stop at maximum lift	•
Safety	Gradient Anti-Roll-Back	•
	Automatic park brake	•
	Belly switch	•

<sup>• =</sup> Standard Equipment; x = Option

## FEATURES & ADVANTAGES

### WPio<sub>12</sub>

#### **Electrical lift and manual lowering**

- · Sensitive lifting and lowering
- Drive and operating switches with easy reach position
- Automatic lift stop (at maximum lift)

#### **Smart Display**

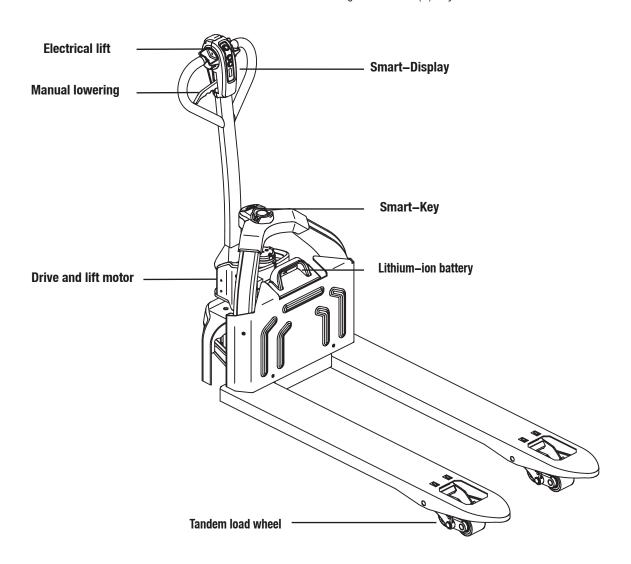
- · Battery discharge indicator
- · Operating hour counter
- Battery management system
- On-board diagnostics via error codes

#### **Smart Key**

- · Smart-Key activation
- Easy to use
- · Access control

#### **Application**

- · Specially developed for use on level ground
- · Ideal for slight gradients of maximum 4 degree
- Always usable with the lithium-ion battery from top-up charging
- · Quick charging times
- Maneuverability in tight corners
  - Total width (b1) only 560 mm
  - Length to fork face (I2) only 390 mm



### PRODUCT DESCRIPTION



### WPio12

#### The WPio12 – an innovative assistant

The WPio12 is an electric hand pallet truck with a lithium-ion battery. It is ideal for transporting all kinds of goods over short distances. In contrast to conventional hand pallet trucks, the WPio12 lifts and moves goods using electrical power. The minimal L2 dimension (length to face of forks) of only 390 mm, makes the WPio12 extremely compact and ideal for use in confined spaces, e.g. in stores and business centres of all types.

Its low service weight of only 130 kg is a further advantage that also allows the WPio12 to be transported in lorries and used on tail lifts. Thanks to the maintenance-free lithium-ion battery and the included charger daily routines stay much the same when a conventional hand pallet truck is replaced with the WPio12. The WPio12 is perfect for light duties in goods distribution, production tasks or warehouse applications – an innovative assistant.

#### Advantages of lithium-ion technology in the WPio12

#### High performance in a compact design

The high energy density of the installed lithium-ion battery provides great travel performance and long operating periods of up to 3 hours. At the same time, the WPio12 is very compact and has a low service weight, which means it consumes up to 30 percent less energy than vehicles with lead-acid batteries.

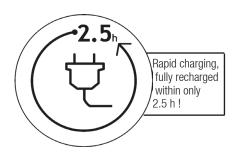
#### Fast charging + top-up charging

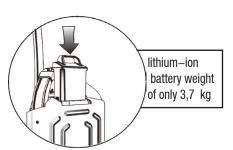
Top-up charging can be used between full charges without affecting the service life of the battery. The battery can be recharged with any 230-V socket. No costs are incurred for adapting the existing charging infrastructure (e.g. ventilation).

After deep discharge cycle, charging to 60% battery capacity takes only 40 minutes and the battery is charged to full capacity after 2.5 hours.

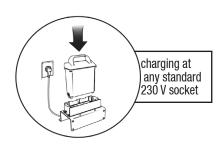
#### Double service life + maintenance-free battery

The lithium—ion battery has approximately twice the service life of a conventional lead—acid battery (approximately 1.000 charge cycles). Furthermore, it does not require any maintenance with regard to battery acid.





Dealer:



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